#### DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES Office of Structural Materials Quality Assurance and Source Inspection

Bay Area Branch 690 Walnut Ave.St. 150 Vallejo, CA 94592-1133 (707) 649-5453 (707) 649-5493



Contract #: 04-0120F4

Cty: SF/ALA Rte: 80 PM: 13.2/13.9

File #: 69.28

# WELDING INSPECTION REPORT

Resident Engineer: Pursell, Gary **Report No:** WIR-003057 Address: 333 Burma Road **Date Inspected:** 31-May-2008

City: Oakland, CA 94607

**OSM Arrival Time:** 1400 **Project Name:** SAS Superstructure **OSM Departure Time:** 330 **Prime Contractor:** American Bridge/Fluor Enterprises, a JV

Contractor: Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China

**CWI Name: CWI Present:** Yes N/A No **Inspected CWI report:** Yes N/A **Rod Oven in Use:** Yes No No N/A Yes N/A **Electrode to specification:** No Weld Procedures Followed: Yes No N/A N/A **Qualified Welders:** Yes No **Verified Joint Fit-up:** Yes No N/A N/A Yes No N/A **Approved Drawings:** Yes No **Approved WPS:** Yes No N/A **Delayed / Cancelled:** 

34-0006 **Bridge No: Component:** OBG

## **Summary of Items Observed:**

CALTRANS Quality Assurance (QA) Inspector, Erik Prue was present for the fabrication scheduled for this project at the ZPMC facility in Shanghai, China for the San Francisco Oakland Bay Self Anchored Suspension Bridge.

OBG Bay 1: QA inspector performed ultrasonic testing (UT) verification prior to ZPMC Quality Control (QC) UT inspections on partial penetration joints of deck panels DP382-001 weld joints 4 & 5 and DP406-001 weld joints 2 & 3. QA UT inspected 15% of the total weld length of weld joints listed above. QA Inspector found lack of penetration indications that results in depth of penetration less than the minimum of 9.6 mm required on weld joints for deck panel DP382-001. Area inspected by QA UT Inspector for DP406-001 contained no areas of depth of penetration less than the required 9.6 mm. For details on UT inspections performed this day see modified TL-6027 UT Inspection report dated 31 May, 2008.

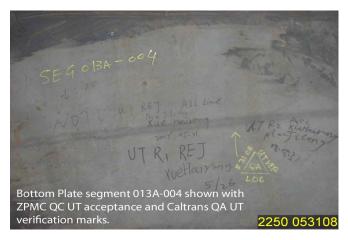
New OBG Bay 1: QA Inspector performed ultrasonic verification testing of Bottom Plate segment 013A-004 Complete Joint Penetration (CJP) butt joint. The Ultrasonic Testing (UT) was performed to verify that 10% of the weld meets the requirements of the contract documents and AWS D1.5-2002. The weld and base metal were scanned utilizing a Krautkramer Branson USN 60 #01RN5T. QA Inspector performed a base metal lamination check using a 25mm diameter 2.25 MHz transducer and a shear wave scan using a 20mm x 15mm 2.25 MHz transducer on a 70 degree angle wedge from face A. For details please see the ultrasonic testing report TL-6027 dated 31 May, 2008. QA Inspector found the weld inspected to be in compliance with AWS D1.5- 2002 Table 6.3 and the contract documents.

# WELDING INSPECTION REPORT

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## **Summary of Conversations:**

No significant conversations this day.

### **Comments**

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Patrick Lowry, 858 344-2712, who represents the Office of Structural Materials for your project.

Inspected By:	Prue,Erik	Quality Assurance Inspector
Reviewed By:	Carreon, Albert	QA Reviewer